

## **ABSTRACT**

A transdermal substance delivery device, comprising at least one ultrasonic transducer for generating at least one ultrasonic transmission for inducing movement of at least one substance into a tissue the at least one ultrasonic transmission and the at least one sensor positioned with the at least one transducer to sense reflected ultrasound transmissions, wherein the sensed ultrasound transmissions are indicative of substance actually moved into the tissue. A method for transdermal substance delivery, comprising generating at least one ultrasonic transmission from at least one ultrasonic transducer for inducing movement of at least one substance into a tissue and positioning the at least one ultrasonic transmission and at least one sensor positioned with the at least one transducer to sense reflected ultrasonic transmissions and wherein, the sensed ultrasonic transmissions are indicative of substance actually moved into the tissue.